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## CCNLP LAB 5

Problem Statement: - Sentiment Analysis using NLTK Watson - Tone analyzer.

## Objectives:

- 1. To study and explore IBM watson Tone Analyze,
- 2. To leaven concepts of sentiment analysis wine

Theory:

Explain following concept.

· IBM woodson Tone Analyzey, API - Explain methods used in tone analysis.

IBM watson Tone Analyzer Service uses linguistic analysis to detect emotional and language tones in written text. The service can analyze tone at both the doc and sentence level. Different methods used in Tone Analysis are: -

## 1) Analyze general tone (GET)

Use the general purpose endpoint to analyze the tone of your input content the Securice analyzes the content for emotional and language tones. The method always analyzes the tone of the full document: by default it also analyzes the tone of each individual sentence of the content.

- · Use this [GET] method to analysye smaller quantities of plain text contents
  - · Use the Analysize general tone [POST] method to analysize larger aumounts of contents in any of the available formats.
- Analyze Customen engagement tone:

  Use the customen engagement end point to

  analyze the tone of customen service and

  analyze the tone of customen service and

  customen support conservation. For each utterance

  of a conversation, the method deposts the most

  prevalent subset of the following seven tones

  and, fourtrated, satisfied, excited, polite, impolite

  Olympatsetic

- 2) Features of Sentiment Analysis.
  - 1. Pine grained Sentiment Analysis
  - 2. Smotton Detection

  - 4. Multilingual.
- \* Algorithm / Implementation.
- 1) Record Upice Statement
- ii) convert upice statement to text
- iii) Peed text to tone analy year () function.
- iv) Pause Ison and output relevant occurt
- of the some hope of some \* Platform: - 64 - bit Open sowice Linux, IBM watson cloud, Ison
- \* Input: Text documents, news auticle, tweets, customer reviews!
- \* Output: Analysis of input text to various sentime -nts / tones. -nts Itones.
- \* Conclusion: Hence, leasined the concept of sentimer analysis using IBM watson Tone analyzed API and MLTK.

FAGS:

1) list the various sentiments | tones analyze by
1BM Watson Tone analyze API?

Ans: - 1. Emotions

2. Social Tendencies

3. language Style.

Emotion identified include things like anger, fear, joy, sadness and disgust, identified social tenden cies includes things from the Blg five personality traits which includes conscientionsness, extraversion, agreeableness and emotional range.

a) list different NLTK modules used in sentiment analysis.

Ans:- NItk · corpus NItk · tokerize.